

Practicum Preparation 05-02 Transactions

- Use Two phase locking (2PL, No locks can be acquired if another transaction unlocked)
- Locks must be held as short as possible and only as exclusive as necessary. Non-conflicting objects need no locks.

Schedule 1

T1: R(A) W(B)

T2: W(C) R(A)

Schedule 2

T1: R(A)

T2: W(A)

Schedule 3

T1: R(A) W(A)

T2: R(A)

Schedule 4

T1: W(A)

T2: R(A) W(Z)

Schedule 5

T1: W(B) W(A)

T2: R(A) W(B)

Schedule 6

T1: R(A) R(B) W(B) W(D) R(Z)

T2: R(B) R(Y) R(Z) W(Y)

T3: R(A) W(D) R(B)

Schedule 7

T1: R(A) W(A) R(B) W(B)

T2: R(B)

T3: R(C) W(C) R(A) W(A) R(D)

T4: R(E) W(E) R(F) W(F)

T5: R(D) R(X)